

# Network Design Workshop

## L2/L3 Lab Access Instructions

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## 1 Introduction

This lab runs on a virtualized environment for Cisco IOS called “Dynamips”. The method of access to each virtual switch or router is via Telnet to a specific port on the IP of the machine that runs the virtualization platform.

```
$ telnet <HOST-IP> <PORT>
```

For example:

```
$ telnet 10.10.0.241 2012
```

**The instructor will provide the IP address of the host in this particular workshop**

## 2 Device to Port Mapping

| Name | Type | Console Port |
|------|------|--------------|
| R11  | 7200 | 2011         |
| R12  | 7200 | 2012         |

| Name | Type | Console Port |
|------|------|--------------|
| R13  | 7200 | 2013         |
| R21  | 7200 | 2021         |
| R22  | 7200 | 2022         |
| R23  | 7200 | 2023         |
| R31  | 7200 | 2031         |
| R32  | 7200 | 2032         |
| R33  | 7200 | 2033         |
| R41  | 7200 | 2041         |
| R42  | 7200 | 2042         |
| R43  | 7200 | 2043         |
| R51  | 7200 | 2051         |
| R52  | 7200 | 2052         |
| R53  | 7200 | 2053         |
| R61  | 7200 | 2061         |
| R62  | 7200 | 2062         |
| R63  | 7200 | 2063         |

| Name | Type | Console Port |
|------|------|--------------|
| BB11 | 3725 | 2111         |
| BB12 | 3725 | 2112         |
| SW11 | 3725 | 2113         |
| SW12 | 3725 | 2114         |
| BB21 | 3725 | 2121         |
| BB22 | 3725 | 2122         |
| SW21 | 3725 | 2123         |
| SW22 | 3725 | 2124         |
| BB31 | 3725 | 2131         |
| BB32 | 3725 | 2132         |
| SW31 | 3725 | 2133         |
| SW32 | 3725 | 2134         |

| Name | Type | Console Port |
|------|------|--------------|
| BB41 | 3725 | 2141         |
| BB42 | 3725 | 2142         |
| SW41 | 3725 | 2143         |
| SW42 | 3725 | 2144         |
| BB51 | 3725 | 2151         |
| BB52 | 3725 | 2152         |
| SW51 | 3725 | 2153         |
| SW52 | 3725 | 2154         |
| BB61 | 3725 | 2161         |
| BB62 | 3725 | 2162         |
| SW61 | 3725 | 2163         |
| SW62 | 3725 | 2164         |

### 3 Log in instructions

After executing the telnet command, you will see something like the following:

```
Trying 10.10.0.241...
Connected to 10.10.0.241.
Escape character is '^]'.
Connected to Dynamips VM "R32" (ID 8, type c7200) - Console port
```

Hit ENTER at this point. Then, you will see this question:

```
Would you like to enter the initial configuration dialog? [yes/no]:
```

Answer “no”.

The router will show some initialization routines, and finally, you will see the default prompt:

```
Router>
```

You can then go into privileged mode:

```
Router> enable  
Router#
```

And then enter configuration mode:

```
Router# configure terminal  
Router(config)#
```

And you are ready to start entering configuration statements. When you are done, exit configuration mode and save your changes:

```
Router(config)# end  
Router# write memory
```